

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Submit Comments: July 22, 2005

Applicant's or agent's file reference 758.1916WO11	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2005/006037	International filing date (day/month/year) 22/02/2005	(Earliest) Priority Date (day/month/year) 23/02/2004
Applicant DONALDSON COMPANY, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

CRANKCASE VENTILATION FILTER

5. With regard to the **abstract**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2005/006037

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

A crankcase ventilation filter includes a media stage comprising continuous, extruded fibres having a largest cross sectional size of at least 10 microns, a calculated pore size in the x-y direction of 10-60 microns, an added binder resin content of no greater than 7% by weight of the total fibre material; the continuous fibres are bonded at spaced locations. An assembly comprising the filter and a housing including a gas flow inlet, a gas flow outlet and a liquid drain.

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Int'l Application No
PCT/US2005/006037

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F01M13/04 B01D46/24 B01D39/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01M B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/051455 A1 (GIESEKE ET AL) 20 March 2003 (2003-03-20) page 2, paragraph 43 - page 4, paragraph 67 page 8, paragraph 104 - page 8, paragraph 106	1,6
A	----- US 6 290 739 B1 (GIESEKE ET AL) 18 September 2001 (2001-09-18) cited in the application column 3, line 63 - column 14, line 11	1,6
A	----- US 6 174 603 B1 (BERGER) 16 January 2001 (2001-01-16) cited in the application column 6, line 7 - column 9, line 30	1,5

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

14 June 2005

Date of mailing of the international search report

22/06/2005

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INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. Patent Application No
PCT/US2005/006037

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003051455 A1	20-03-2003	US 6290739 B1	18-09-2001
		AU 2605701 A	09-07-2001
		EP 1259305 A2	27-11-2002
		JP 2003518579 T	10-06-2003
		WO 0147618 A2	05-07-2001
		US 2002033009 A1	21-03-2002
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		EP 1259305 A2	27-11-2002
		JP 2003518579 T	10-06-2003
		WO 0147618 A2	05-07-2001
		US 2003051455 A1	20-03-2003
		US 2002033009 A1	21-03-2002
US 6174603 B1	16-01-2001	US 6026819 A	22-02-2000
		AU 2456199 A	06-09-1999
		DE 19982810 T0	29-03-2001
		GB 2347941 A , B	20-09-2000
		JP 2002503773 T	05-02-2002
		WO 9942006 A1	26-08-1999